Winter 2008

CEG 355-01: Introduction to the Design of Information Technology Systems

Thomas C. Hartrum
Wright State University - Main Campus, thomas.hartrum@wright.edu

CEG355 Introduction to the Design of Information Technology Systems

Winter Quarter 2008

Wright State University

Course Description

Introduction to the design of information systems comprising modern technologies such as SQL database programming, networks, and distributed computing with CORBA, electronic and hypertext (HTML) documents, and multimedia.

This course is concerned with the techniques of designing and implementing distributed business software. Emphasis is on developing graphical user interfaces (GUIs) using Java Swing classes, storing and accessing data in a relational database using SQL, and implementing a distributed system using CORBA technology. Especially in light of Java and CORBA, there is a focus on object-oriented programming. The overall objective is to make the student aware of the technology available to implement a distributed business application built over a database system and to develop in the student the ability to use such technologies. Hands-on experience is emphasized through the use of homework and a class project.

Professor

Dr. Thomas C. Hartrum
Office: 337 Russ Engineering Center
Office Hours: M, T, W, Th 2:00 – 4:00; or by appointment.
Office Phone: 775-5015
Email: **thomas.hartrum@wright.edu**
Web: **www.cs.wright.edu/~thartrum**
Class Hours: M W 4:10 P.M. – 5:25 P.M., Health Sciences, Room 116.

Text

Horstmann and Cornell, *Core Java 2, Volume II, 7th Ed.*, Prentice Hall, 2005.

Recommended

Horstmann and Cornell, *Core Java 2, Volume I, 7th Ed.*, Prentice Hall, 2005,
Or
Gaddis, *Starting Out with Java, 3rd Ed.*, Addison Wesley, 2008.

Prerequisites

CS241

Grading

Grading will be as follows:

Homework, programming exercises & Project s	50
Midterm Exam	25
Final Exam	25

Course grades will be based on the total score as follows: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: below 60.
Grades may be further curved if appropriate. (continued)

You may work with others on homework assignments, but you must turn in your own individual work. Homework that has obviously been copied will result in a grade of zero for both parties and will be reported to the Office of Judicial Affairs, as will any other form of cheating. Ten percent will be deducted for unexcused late homework.

Tentative Schedule Winter 2008

Week	Topic	Text (volume::chapter:pages)	Slides	Code
1	M (1/7) Introduction	I::2-I::4	Intro355, JavaIntro	BasicCode
	W (1/9) Java	I::5:179-185, I::11:564-567 I::6:211-217	MoreJava	BasicCode
2	M (1/14) Java Swing	I::7:245-260, I::8:285-296	Swing	SwingCode
		I::9:345-354, I::9:354-393	Swing	StudentList
	W (1/16) Java Swing, JList	II::6:321-327	JavaReview	Calculator1
3	M (1/21) HOLIDAY			
	W (1/23) Architecture issues		Architecture	Comparers
4	M (1/28) MVC, Java data models	II::6:327-337	DataModel	Rectangle, StudentList
	W (1/30) JTable	II::6:373-410	JTable	StudentTable
5	M (2/4) Review			
	W (2/6) Midterm	All through Java data models		
6	M (2/11) JTable			
	W (2/13) Relational Databases		TBD	
7	M (2/18) SQL, mySQL	II::4:189-194, Handouts	TBD	
	W (2/20) JDBC	II::4:185-189, 194-199	TBD	TBD
8	M (2/25) JDBC	II::4:199-215	TBD	TBD
	W (2/27) CORBA	II::5:257-260, 297-314	TBD	TBD
9	M (3/3) CORBA			
	W (3/5) CORBA			
10	M (3/10) Advanced topics	TBD	TBD	TBD
	W (3/12) Adv. topics, Review	TBD	TBD	TBD

- M (3/17) 5:45 PM - 7:45 PM Final Exam

NOTE: There will be *no* early final exam – plan your travel accordingly. In case of a legitimate conflict, a makeup final can be arranged.